

# THE TECH

VOL. XXXII. NO. 61

BOSTON, MASS., WEDNESDAY, DECEMBER 18, 1912

PRICE TWO CENTS



Everybody knows now what "Was Ist Los" means.

This tremendous production is to be given by the students for the purpose of aiding athletics at the Institute. A large crowd is expected, many tickets are being sold at all hours of the day and night and many are in demand.

Remember that you want to be sure and bring HER, for she will appreciate the opportunity to see what Technology can do in the theatrical line. This offers a splendid chance to get in strong. Be sure and take the chance.

To give an idea of what can be expected there will be a San Francisco cafe scene, a most elaborate reproduction acted by imported singers from San Francisco. Many new and mysterious card tricks will be exposed. General vaudeville stunts, coon songs and burlesques, along with inspiring music, will make this evening of the nineteenth one of the most enjoyable ones ever spent by Tech men, their families and friends.

Tickets are going like hot cakes, so get yours early and be sure of a seat.

Everybody will be at Huntington Hall at 8 P. M. Thursday evening, the nineteenth of December. Tickets can be secured from various men about the Institute.

## REGIMENTAL DANCE.

Plans Being Laid Early for Affair to Occur in March.

Although it is early in the season the officers of the newly made regiment have already laid preliminary plans for the annual dance, which this year will have to be called the "Regimental Hop" because of the new form of organization.

It is intended to hold the party in the middle of March, and it is probable that Horticultural Hall will be secured, as for last year's successful dance. The officers constitute a committee of a whole to take charge of the affair, which promises to be one of the social functions of the second term.

This year it is intended to restrict the number of invitations sent out to suburban high schools, in order to interest more of the Institute upper-classmen. With the number of former officers and the present ones, there will be a number of upper-classmen who will attend anyway, and it is expected that a large number of others may be interested.

Four women are taking engineering work at the University of Michigan, and they are reported as being very successful.

## COURSE XIII HOLDS INTERESTING MEETING

Mr. Walbridge Speaks on Fore and Aft Rig—Group Picture for Technique.

Yesterday afternoon the Naval Architectural Society held a meeting in 32 C, at 4 o'clock. The meeting opened with the reading of the minutes of the last meeting and the report of the treasurer. The motion was seconded and passed, to start an album which is to contain clippings from THE TECH relating to the society. Mr. Chow inquired about having a group picture taken for the Technique, but it was decided to see what other societies are doing in regard to this matter and report at the next meeting. Mr. Walbridge then gave a very interesting talk on the "Fore and Aft Rig," touching on the origin and development of the "Rig" and the various types. A committee was appointed to select speakers for future meetings this year, two speakers for each meeting, and also to supply some good live topics for those speakers who are undecided as to their choice of subject. This committee is to consist of Mr. Walbridge, chairman, Mr. Bent and Mr. Burtner. Mr. Todt appointed a committee to see about the shingles and to report the result at the next meeting. After voting to hold the next meeting on January 7, 1913, the meeting adjourned.

## ABOLISH FENCING.

West Point Important Activity Abolished by Government.

Fencing at West Point has been prohibited by the United States Government officials. This sport, which hitherto ranked at the Army institution as second in importance to perhaps no other activity but football, is a thing of the past.

West Point authorities have announced that hereafter Cadets will be prohibited from engaging not only in the I. C. F. A. tournaments, but even in inter-corps bouts.

It is possible that the restriction will be applied to the Annapolis Naval Academy, and that the order may be the first step in dispensing with all athletics at both institutions

## GOOD HOCKEY OUTLOOK.

The hockey season promises to be very successful if one may judge from the schedule. Games with such teams as Syracuse, Cornell, West Point and Amherst, with a possibility of getting Williams and Dartmouth, besides tonight's game with Harvard, are enough to keep any team busy for the remainder of the season. The team is working together and gives strong hopes of turning out a champion seven.

## PROF. RICHARDS BETTER.

Pupils of Professor R. H. Richards, who is in charge of the department of Mining Engineering, will be glad to learn that he is convalescing rapidly after being operated upon last Friday, at the Faulkner Hospital in Jamaica Plain.

## TECH VS. HARVARD HOCKEY TONIGHT

M. I. T. Players Meet Strong Team at Arena at 8.15 Tonight.

Tonight, at the Arena, Technology's hockey seven will line up against the strong Harvard team. The game is to be called promptly at 8.15 and until time is called at the close of the game there should be a continuous stretch of excitement. Tickets have been obtained by the members of the hockey squad from the Arena management, so that anyone desiring to see the game may obtain tickets from this source and sit in the Tech section. There is to be organized cheering, so that it is desired that every man take steps to get his ticket from the members of the squad.

On last Monday practice was held with the Pilgrim A. A. team, with the regular lineup. The good showing made in the practice game was very encouraging, showing a decided improvement over the playing last Wednesday with the B. A. A. The lineup tonight is:

Ranney, g.; Eichorn, p.; Stucklen, c. p.; Fletcher, r. w.; Foote, l. c.; Hurlbutt, r. c.; Storke, Macloud, l. w.

## DR. MACLAURIN'S TALK.

Will Be Held in Union at Noon—Everyone Expected

Tomorrow will be a banner day for T. C. A., and it is expected that all attendance records will be surpassed. The opportunity to hear President MacLaurin speak at the Thursday noon meetings of the T. C. A. is one which is not very often presented to the student body. Dr. MacLaurin's speeches are always very interesting, and it will surely be worth the while of every one who can possibly do so to be present. Although the subject of the address has not yet been announced, it will probably be a discussion of the relation of the T. C. A. to student life.

Doctor MacLaurin is extremely busy now, even more so than usual, because of the extra work caused by the planning of the New Technology. Therefore it is probably one of the very few times that he will be able to speak to the student body this year, and the T. C. A. is expecting that the Union will be filled to its fullest capacity, especially with new men. It is indeed rather a matter of duty to be present and learn the opinions of the President of the Institute on matters which are undoubtedly of great concern to all Tech men.

The meeting will be held in the Union at 1.30 o'clock, and will begin promptly on time.

## MANDOLIN CLUB.

No rehearsals of the Mandolin Club this week. However, they will start again immediately after the Christmas vacation. The rehearsals will be held Wednesdays and Fridays. Some of the new music is expected to be on hand by that time, and it is desired that everyone be present regularly.

## MR. VALENTINE SPEAKS TO ELECTRICAL MEN

"Problems in Telephone Traffic Engineering" Subject of Fine Address.

Yesterday evening the Electrical Engineering Society held a very enjoyable and interesting dinner in the Union at 6.30 o'clock.

After full justice had been done to the elaborate menu provided by Chef Colton of the Union, the first business was the description and outline of the trip to be taken in February by the members of the society who desire to make it. The schedule of the tour which will probably be taken is as follows: Sunday, February 2, 1913, leave Boston at 4 P. M.; Monday, February 3, arrive at Niagara Falls at 7.32 A. M.; Tuesday, February 4, leave Buffalo, sleeper will be open, at 10 P. M.; Wednesday, February 5, arrive at Schenectady, 8.10 A. M.; leave Albany at 7 P. M., arrive at New York 10.10 P. M.; Friday, February 7, leave for Boston at 5.30 P. M. The cost of this trip will be \$33.75.

Then the speaker for the evening, Mr. F. P. Valentine, was introduced. Mr. Valentine has made a specialty of telephone work, and his subject was "Problems in Telephone Traffic Engineering." The talk was very interesting, and was greatly enjoyed by about one hundred students who were at the dinner.

In the beginning, Mr. Valentine said the number of telephones needed in any given area which is to be given telephone service is estimated. Then the most economical way in which the wires can be arranged is figured. In these estimates is included the number of calls which may be expected, not only in a day, but in the busy hour of the day. The traffic engineer then determines how much switchboard capacity will be needed to furnish the given area, the switch-board capacity being limited not by the number of wires used, but by the number of calls which can be handled. In estimating the number of calls which may be expected the traffic engineer uses the records which are made for this purpose. For instance, the Back Bay district, which is the residential section of Boston, has most of its traffic in the morning and evening, the morning traffic being about 15 per cent. Therefore they must provide service for these busy hours, and also for the busy five minutes of these hours.

It is not easy to find these things, but the work is started about fifteen (Continued on Page 2.)

## WEATHER.

Forecast for Boston and vicinity: Rain or snow Wednesday; moderate variable winds, becoming easterly.

## CALENDAR.

Wednesday, December 18, 1912.  
8.15—Hockey, Tech vs. Harvard—Arena.

Thursday, December 19, 1912.  
1.30—T. C. A. Meeting—Union—President MacLaurin, speaker.  
8.00—"Was Ist Los?"—Huntington Hall.

SHOW COMPETITION 5.00--HOCKEY ARENA 8.15

# THE TECH

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WEDNESDAY, DECEMBER 18, 1912

LET US ALL ENTER INTO THE SPIRIT OF "WAS IST LOS" WITH A WILL AND FEELING OF LOYALTY WHICH EXISTS IN EVERY TECHNOLOGY MAN.

We know that it is in a good cause and that we can help that cause by attending the entertainment, which will be worth much more than the actual money cost of a ticket. Let us rise to this occasion with our whole support.

## ELECTRIC WAITERS.

An apparatus for the use of hotels and restaurants has been brought out in Wellington, New Zealand, which presents several novelties. At each table in the dining room there is a wooden frame containing the menu, and opposite the name of each dish there is a push-button. When a guest has made his choice he touches the appropriate push-button, which causes the number of the table and the numbers of the chosen dishes to appear in the kitchen upon an annunciator. The ringing of a bell also calls the attention of the cook to this order. An automatic printer at the same time makes a record of the order and a statement of the charge, which is received by the waiter when the dish is ready for serving. The remainder of the service is performed by the waiter in the customary way.

## MASONS FOR CLUB.

Committee Appointed to Draw Up Constitution and Laws.

A successful meeting of 16 Masons was held last night in the Union, at which plans for a more permanent organization were laid. T. H. Haines of the Mechanical Engineering Department presided.

Samuel Crowell, of 1880, spoke informally on similarly organized bodies of Masons in other colleges, and thought it would be a good thing for those of Technology to form a sort of club. In pursuance with this idea the following men were appointed to draw up a form of constitution and by-laws to present at the next meeting: Professor Frank Vogel, A. E. English and L. L. Custer, '13.

The members gathered for refreshments after the business meeting. It was decided to hold a dinner in the Union January 14, at which the further organization will be considered.

## CHEMICAL SOCIETY TO MEET FRIDAY

American Chemical Society to Hold Joint Meeting With Institute Society.

Friday night the Chemical Society will hold a joint meeting with the Northeastern Section of the American Chemical Society in 6 Lowell. The secretary of the American Chemical Society, Professor W. K. Lewis, of the Institute, has sent out invitations to all men who are members of the M. I. T. Society, asking them to let him know whether they will be at the dinner which is to precede the meeting. He also wishes it understood that those members of the society who are unable to come to the dinner are expected to be at the meeting.

This joint meeting is also the annual meeting of the American Chemical Society, at which the officers are to be chosen for the coming year. Among the list of nominees are several men connected with the Institute. Professor W. K. Lewis has been renominated for the office of secretary. Mr. J. W. Phelan, Professor R. S. Williams and Professor W. T. Hall have been nominated for the Executive Committee, and Professor Talbot has been nominated as counselor.

The speaker announced in the notices sent to the members has a wide reputation as an eloquent speaker, and his subject is one that will interest the Electro-Chemists as well as the members of Courses V and X.

## MR. VALENTINE SPEAKS

(Continued from Page 1.)  
years before it is finally completed. First, a small layout is installed for use during the first two or three years, and thus too great expense is not involved in changing it.

Another strong point which Mr. Valentine made was that the gross returns from the business are but a fraction of the investment, while most business houses expect to turn over their investment four or five times. This makes necessary very accurate engineering to avoid waste in equipment. This waste may be providing equipment too soon, or on the other hand, too late; and waste is also observed in other ways. The sole purpose, he said, of the telephone company is to furnish service which must be satisfactory to the subscribers. No public utility comes so closely in contact with its subscribers as the telephone. The moods of the users must be taken into consideration, and thus there is an obvious demand for instant service.

The traffic engineer have reduced the speed and accuracy, he said, to known factors, and a rigid system of inspection has been introduced. A training school has been opened for operators, four weeks being spent in the school, then four more in the central office under inspection, after which the operator is able to do the regular work. Three days a month there is an actual registration of all the calls of each operator to ascertain faults.

The traffic engineer endeavors to answer calls with a minimum of labor, according to Mr. Valentine, and also to keep expenses down to a minimum. In this matter the installation of apparatus is an important step. One of the most important changes which has been made recently is the use of the common bath type of switchboard, which has an efficiency greater by 30 per cent than its predecessor.

The toll service is an important branch, and great improvements are being made in it. The toll service has an extra charge attached to it, in order that only those using it shall be charged for it. The telephone companies try to make the toll ser-

(Continued on Page 3.)

## STONE & WEBSTER

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we had printed recently about our \$25. to \$50. Overcoatings, their value and beauty, and the shivering blast soon due for your morning greeting? That's all we want to know just now.

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OPPOSITE YOUNG'S HOTEL

## COLLEGE NOTES.

Soccer football has been inaugurated at the University of Wisconsin.

According to an investigation at the University of Iowa it has been found that only one out of every eleven college engagements result in marriage.

A new way for raising money for athletic purposes has been inaugurated at Northwestern University. One day a week sandwiches are sold as a light lunch by the athletic association.

According to a report of the committee investigating the advisability of creating a lumbering course, such a course may soon be started at the State University of Washington.

At Willamette University the faculty has taken a decisive step by ruling that no man can hold two important undergraduate offices at one time.

The University of Chicago has \$1,000,000 worth of new buildings under construction. All the new buildings are done in Gothic style, and are modeled after the buildings of Oxford University.

Two Chinese students in the University of Michigan, V. T. Maw and Y. F. Jabin Hsu, have composed a Chinese playlet that will be presented by the Corda-Frater Cosmopolitan Club of that University.

The first municipal forest in America has been started at Syracuse in co-operation with the water bureau of Syracuse city. Over 150 acres of forest land have been set aside for the purpose.

Harry Smith, an instructor in the economics department of Cornell, has been awarded the thousand dollar prize given annually by Hart, Schaffner & Marx for the best essay on current economic subjects.

A fund for the erection of a university theatre has been started at Princeton. Two hundred thousand dollars will be necessary for the erection of the building, which, when completed, will house all the university plays and entertainments. The first theatre of this kind has recently been opened at Smith, while a similar project is under way at Yale.

## MR. VALENTINE SPEAKS.

(Continued from Page 2.)  
vice as nearly approach the speed and accuracy of local service as possible. In 1906 only 17 per cent. of the toll traffic was on a no-delay basis, while at present over 80 per cent. of the service is of this kind, and it is expected that this will be increased to 90 per cent. in the next few years. For instance, several years ago the time from Boston to Worcester was 15 minutes; it is now 3 minutes, and next year it will be 45 seconds.

An effort is now being made to combine telegraph and telephone work. About 20,000 telegraph offices now in existence are losing money. Therefore, if many of these are abolished, and only central stations used, the telegrams may be telephoned from small towns to the large central telegraph stations, and from there they will be forwarded. It may also become possible to combine the mail to get increased efficiency and avoid loss.

In concluding, Mr. Valentine said that the real use of the traffic engineer is to study the real needs of the public, and find the best and most economical way of providing for these needs.

After the students had asked many questions, which Mr. Valentine cheerfully answered, the gathering broke up.

POSTER COMPETITION  
WILL BEGIN TODAY

Publicity Manager G. E. Whitwell Will Meet Competitors in Show Office.

The poster competition for the Tech Show, 1913, begins today at 4 P. M. Publicity Manager G. E. Whitwell will be in the Tech Show office today at that time to meet all those men who are desirous of trying poster work.

This competition will last until after "mid-year's," thus allowing the men plenty of time to plan and finish their drawings. Following the custom of previous years, a prize of ten dollars will be awarded to the successful competitor. Any student may turn in as many drawings as he desires.

The poster is to be done in two flat colors, black and white; the colors to be chosen by the artist. The drawing is to be twenty by forty inches, must contain the words "Tech Show" and the title, "Money in Sight," with a blank space left at the bottom for the insertion of the date and place of the performance. The idea embodied in the drawing should suggest the title of the show.

Publicity Manager G. E. Whitwell wishes all the men who are in any way talented as artists to come around this afternoon and see him. If any of the men are unable to get around at this time a note addressed to Mr. Whitwell may be left at the Cage, and another date arranged with him.

## SENIOR PORTFOLIO.

Nominations for Committee Due Before Friday, 5.00 P. M.

The Senior Portfolio Nomination Committee, consisting of A. W. Carpenter, '13, C. E. Trull, '13, and K. B. Blake, '13, announced that all nominations for the Portfolio Committee are due at the Cage before Friday night, December 20, at 5 P. M. On account of the holidays all nominations must be in by that time. The ballots may be obtained at the Cage the first Monday after the vacation. The following Monday the ballots will be due.

Recognizing the value of detailed topographic mapping of its area, the State of Kentucky, through the Kentucky Geological Survey, is co-operating with the United States Geological Survey in meeting the expenses of the surveys in the field. The latest map issued by the Federal Survey as a result of this co-operation is that of the area known as the Nortonville quadrangle, lying between latitude thirty-seven degrees, fifteen minutes, and longitude eighty-seven degrees, fifteen minutes, and eighty-seven degrees, thirty minutes, in the west central portion of the State. The surveys were made by Topographic Engineers Goodlove, Ballmer and Reiter, of the United States Geological Survey, in 1910, and the map is published on the scale of 1 mile to the inch, with a 20-foot contour interval. This map depicts every physical characteristic of the country, the contour lines indicating the various slopes of hill and valley and showing the altitudes above sea level of all points. By various symbols all the works of man are also shown.

At the Leland Stanford University the co-eds partook in a football game back in the hills. Their costumes were rather well, no men were allowed. Many fine points of the game were exhibited, but both sides were severely penalized for tickling.

The University of California investigators at La Brea have unearthed a fossil skull 100,000 years old.

## The Copley Plaza Hotel

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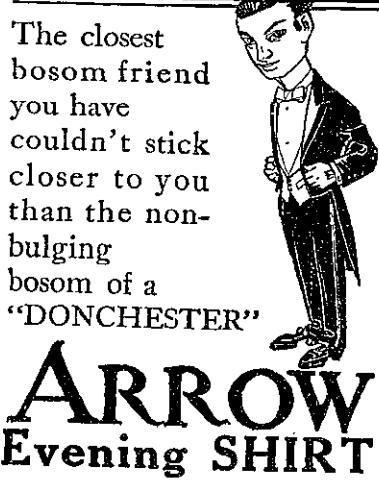
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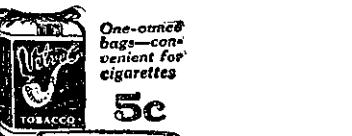
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Tradition  
Tradition  
Tradition

Tradition wears a  
snow-white beard,  
and has the wisdom  
of experience.

The pipe is a college tradition. Fill yours with



5c

Fold \$1.20  
2-ounce tins

10c



Also in  
one  
pound  
glass  
jars with  
humidors  
tops.

Velvet  
THE  
SMOOTHEST  
TOBACCO

and you will endorse  
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Velvet the choicest  
growths of Burley leaf  
is mild, rich and sat-  
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WED., 7.45 to 10.45. First Presentation of LOUISE. Edvina, Gay, Barnes, Clement, Marcoux. Cond., Andre-Caplet.

FRI., 8 to 10.45. TALES OF HOFFMANN. Edvina, Devyne, Fisher, Clement, Marcoux. Cond., Andre-Caplet.

SAT., 2 to 4.50. LUCIA. Tetrazzini, Gaudenzi, Rossi. Cond., Moranzone.

SAT., 8 to 11. LA TRAVITA. Scotney, Ramella, Blanchard. Cond., Moranzone. Popular prices, 50c to \$2.50. SUNDAY ORCHESTRAL CONCERTS 3.15 to 4.45.

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Tonight at 8

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**Julius Caesar****SHUBERT THEATRE**

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**GABY DESLYS**

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with AL JOLSON

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**Classified Advertisements and Notices****CLASSIFIED ADVERTISEMENTS AND NOTICES.**

Faculty Notices, free.  
Activities, 4¢ per line.  
Individuals, 10¢ per line, 6 words to a line.

LAST month a suit case, with initials E. W. M., was taken from the lower Tech office. Will the present possessor please return to the Cage or notify E. W. Mann.

SENIOR Portfolio Nominations will be due at the Cage before 4 P. M. Friday, December 20.

**FACULTY NOTICE.**

The English Department has decided to establish next term a special section in First Year English (140) for men who are engaged in work on THE TECH. The section will be limited to twenty, and no student will be admitted who has received a mark below P in the first term. Fifteen out of the thirty hours will be allowed for work on the paper, and all articles published will, after publication, be gone over by the instructor for criticism. The amount of written work actually done must not be less than thirty-five hundred words, to be made up of copy printed by THE TECH or of special articles submitted to the instructor. The department reserves the right to refuse to count anything which in workmanship or in taste falls below a reasonable standard. Those who wish to join this section should notify the department before the close of the present year.

ARLO BATES.

**FACULTY NOTICE:**  
Fourth Year Hydraulics—Course II.

Sections 1, 4 and 5 will recite in Room 20, Engineering B, on Tuesdays, Thursdays and Saturdays, from 9 to 10 A. M.

Sections 2 and 3 will recite in Room 49, Engineering A, on Tuesdays and Thursdays, and in Room 21, Lowell, on Saturdays, at the same hour.

All sections should prepare articles 6 to 12 inclusive of Russell's Hydraulics.

WALTER HUMPHREYS,  
Registrar.

LOST—A slide rule, plainly marked E. W. Mann, in Union. Will finder please return to the Cage?

FOR PRINTING AND TYPEWRITING, we have the facilities and experience that puts us at the top in the point of speed, convenience and economy in Tech work. We have save some over half another's quotation. Before placing an order come to us for our price.

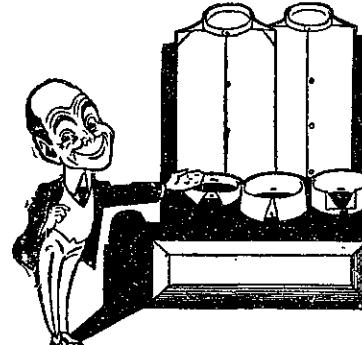
TECH TYPEWRITING BUREAU,  
Opposite the Union. 39 Trinity Place.  
(Mondays)

**FACULTY NOTICE.**

The exercises of the Institute will be suspended during Christmas week, December 23rd to 28th, inclusive.

A. L. MERRILL,  
(tf)  
Secretary.

Dancing Parties every Wednesday and Saturday evenings. Lundin Gymnasium, 44 St. Botolph street, Boston. Refined patronage. (Tues-Fri)

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